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BRYOZOA
(POLYZOA)

COMPILED BY

ANNA B. HASTINGS, M.A., Ph.D.

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8. BRYOZOA

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DISTRIBUTION

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Freshwater.—Holland, Vorstman; Germany, Deckart; Garmes; Kothé; Lüdemann & Kayser; Schumacher; Hungary, Kolosváry; Sebestyén; Russia, N. Africa, N. America, Atrikossow; Tennessee U.S.A., Sinclair & Isom; Uruguay, Maté-Garzon.

(b) FOSSIL

Pleistocene.—Japan, Kataoka.

Pliocene.—Spain, Reguant; Portugal, Carvalho.

Miocene.—France, Balavoine (2); Bugé; Vigneaux (1 & 2); Czechoslovakia, Paghida; Spain, Reguant; Kenya, Thomas; India, Tewari, Bhargava & Tandon.

Eocene.—France, Frud'homme; Spain, Ruiz de Gaona & Colom; N. Carolina U.S.A., Cheetham (1 & 2).

Cretaceous.—Britain, Casey; France, Balavoine (1); Frud'homme; Liechtenstein, Voigt; Brazil, Barbosa.

Permian.—General, Branson; Poland, Odrzywolska-Bienkowska; Buryat A.S.S.R., Naletov; Urals, Russia Min. Geol.

Carboniferous.—Germany, Sittig; Britain, Miller; Spain, Sampelayo; Usa River Basin, U.S.S.R., Viskova; Ohio U.S.A., Root, Rodrigues & Forsyth; Brazil, Barbosa; New South Wales Australia, Campbell.

Devonian.—Belgium, Dessily; Germany, Volk; S. Forghana U.S.S.R., Orlovskij (1); Tien Shan, Orlovskij (2); Manitoba Canada, McCammon; Australia, Ross.

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- †*Canutrypa* discussed p. 2, Francoana p. 8, Dessily.
 †*Ceidmonea* sp. p. 229, Voigt.
 †*Cheilotrypa* sp. A Silurian p. 65, Ross.
 †*Coelocaulis maculosa* sp. n. Devonian Australia p. 66, Ross.
 †*Crisia hörnesii* p. 383, edwardsii, fistulosa, eburnea p. 384, Paghida.—*C. strangulata* p. 216, Reguant.
 †*Diasiopora echinata*, plumula p. 385, Paghida.
 †*Diplosolen pavonicus* p. 385, Paghida.
 †*Entalophora proboscidea* p. 220, Reguant.—*Entalophora* sp. pp. 228, 229, Voigt.
 †*Filisparsa vilacolumensis* sp. n. Pliocene Spain p. 220, Reguant.
 †*Fistulamina frondeocens* p. 464, Campbell.
 †*Fistulipora* defined p. 60, norensis sp. n. Devonian Australia p. 61, pillarensis sp. n. Devonian Australia p. 62, sadlerensis sp. n. Devonian Australia p. 63, victorae p. 64, cowombatensis = ? *Cystiphyllum* sp. A (Rugosa) p. 106, Ross.
 †*Fistuliporidae* defined p. 59, Ross.
 †*Heterocrisia* cf. *carinata* p. 229, Voigt.
 †*Heteropora* sp. p. 230, Voigt.
 †*Hornera striata* pp. 354, 425, Ruiz de Gaona & Colom.
 †*Idmonea disticha*, atlantica, pertusa p. 386, Paghida.—*I. cfr. magna* p. 222, villaltae sp. n. Pliocene Spain p. 223, Reguant.—“*Idmonea*” sp. p. 229, Voigt.
 †*Lichenopora* sp. pl. LIV, Ruiz de Gaona & Colom.
 †*Oncousocia varians* p. 384, Paghida.
 †*Reptaria stolonifera* p. 45, McCammon.
 †*Spiropora verticillata* p. 229, Voigt.
 †*Tervia irregularis* p. 387, Paghida.
 †*Vetofistula mirabilis* (type-species of *Vetofistula*) referred to Favositidae (Coelenterata) p. 105, Ross.

TREPOSTOMATA

- †*Amplexopora* p. 36 queenstownensis sp. n. Ordovician Australia p. 37, Ross.
 †*Amplexoporidae* defined p. 36, Ross.
 †*Anomolotoechus complexus* sp. n. Devonian Tien Shan p. 64, crassus sp. n. Devonian Tien Shan p. 65, Orlovskij (2).

†*Atactotoechus conculinensis* sp. n. Devonian Tien Shan p. 66, Orlovskij (2).

†*Austraphylloporina* gen. n. Phylloporinidae type-species *A. chiefdenensis* sp. n. Ordovician Australia p. 58, Ross.

†*Batostoma tubuliferum* sp. n. Ordovician Australia p. 31, sp. A p. 32, sp. B p. 33, sp. C p. 34, all Ordovician, Ross.

†*Calopora* p. 55, hattonensis sp. n. Silurian Australia p. 56, Ross.

†*Caloporidae* defined p. 55, Ross.

†*Cyphotrypa whiteavesi* sp. n. Devonian Manitoba p. 45, McCammon.—*C. lamellosa* sp. n. p. 41, murrumbidgeensis sp. n., Devonian Australia p. 42, Ross.

†*Discotrypa* p. 37, sp. A Devonian p. 38, Ross.

†*Fitzroyopora* gen. n. Stenoporidae p. 48, type-species *F. oscarensis* sp. n. Devonian Australia p. 49, Ross.

†*Granivallum* gen. n. Stenoporidae p. 51, type-species *G. fistulosum* sp. n. Devonian Australia p. 52, Ross.

†*Heterotrypa* defined, humensis sp. n. Silurian Australia p. 39, pontensis sp. n. Devonian Australia p. 40, H. rushworthensis is inorganic p. 106, Ross.

†*Heterotrypidae* defined p. 38, Ross.

†*Homotrypa* defined, fenestrata sp. n. Ordovician Australia p. 24, Homotrypa sp. cf. *H. fenestrata* p. 26, Homotrypa spp. A, B p. 27, Ross.

†*Leptotrypa* defined, sp. A Devonian p. 43, Ross.

†*Leptotrypella pojarkovi* sp. n. Devonian Tien Shan p. 67, Orlovskij (2).

†*Mesotrypa* sp. A p. 30, Ross.

†*Monticuliporidae* defined p. 24, Ross.

†*Orbignyella* defined, boonderensis sp. n. Ordovician Australia p. 29, Ross.

†*Percyopora* gen. n. Stenoporidae p. 45, type-species *P. tubulata* sp. n. Devonian Australia p. 46, occidentalis sp. n. Devonian Australia p. 47, Ross.

†*Phylloporinidae* defined p. 57, Ross.

†*Shulgina sumsarica* sp. n. Devonian Tien Shan p. 67, Orlovskij (2).

†*Stenocladia* (?) *enigma* sp. n. Carboniferous New South Wales p. 465, Campbell.

†*Stereotoechus* p. 53, shearsbyi p. 54, Ross.—*S. illustris* sp. n. Devonian Tien Shan p. 68, doubles, politus spp. n. Devonian Tien Shan p. 69, gratus p. 70, Orlovskij (2).

CRYPTOSTOMATA

†*Cryptostomata* discussed p. 32 Nekhoroshev (2).

†*Arthrostylidae* discussed p. 50, Nekhoroshev (2).

†*Bactropora* p. 86, Ross.

†*Carinophylloporina* p. 41, Nekhoroshev (2).

†*Chasmatopora* p. 45 moyeroensis p. 46, moyeroensis var. *delicata* var. n. Silurian Siberia p. 47, Chasmatopora sp. p. 48, Nekhoroshev (2).

†*Eurydictya moyeroensis* sp. n. Ordovician Siberia p. 150, bifoliata p. 152, Eurydictya (?) sp. p. 153, Nekhoroshev (2).

- † *Fenestella cerva* sp. n. p. 455, *stellaris* sp. n. p. 456, *anodosa*, *crookfordae* spp. n. p. 457, *stroudensis*, F. (?) *altinodosa* spp. n. p. 458, *rectangularis*, F. sp. cf. *rectangularis* p. 459, *osbornei* p. 460, *micropora* p. 461, Carboniferous New South Wales, Campbell.—*F. irregularis* Nekhoroshev validated, *plebeia* p. 225, *hemispherica*, *oculata* p. 229, *quadradeimalis* p. 231 *frutex* p. 232, *polyporata* p. 233, *tuberculo-carinata* p. 236, " *Fenestella* " *carinata* p. 237, " *F.* " *varicosa*, *crassa*, *morrisii* p. 238, Miller.—*Fenestella* sp. p. 50, Nekhoroshev (2).—*Fenestella* sp. p. 547 and pl. IV, Odrzywolska-Bienkowska.—*F. ferganica* sp. n. Devonian Fergana p. 95, Orlovskij (1).—*Fenestella* sp. p. 59, Root, Rodriguez & Forsyth.—*F. australis* p. 68, *emanulana* sp. n. Devonian Australia p. 69, *pikerensis* sp. n. Devonian Australia p. 70, *westralis* sp. n. Devonian Australia p. 71, *yassensis* sp. n. Silurian Australia p. 72, *margaritifera* p. 73, Ross.—*F. retiformis* p. 90 and fig., *Sampelayo*.—*F. komiensis* sp. n. Carboniferous U.S.S.R. p. 86, *ninae* sp. n. Carboniferous U.S.S.R. p. 87, *sharyuensis* Carboniferous U.S.S.R. p. 89, *usacensis* sp. n. Carboniferous U.S.S.R. p. 90, Viskova.
- † Fenestellidae defined p. 68, Ross.
- † *Goldfussitrypa* p. 86, Ross.
- † *Helopora spiralis* p. 55, Nekhoroshev (2).
- † *Hemitrypa* sp. A Devonian p. 73, sp. B Devonian p. 74, Ross.—*H. sandalica*, *polytuberculata* spp. n. Devonian Fergana p. 96, Orlovskij (1).
- † *Ikelarchimedes* gen. n. Fenestellidae p. 74, type-species *I. waroensis* sp. n. Devonian Australia p. 75, Ross.
- † *Linotaxis* p. 86, Ross.
- † *Loculipora anastomosa* sp. n. Devonian Fergana p. 100, Orlovskij (1).
- † *Moyerella* discussed p. 52, *stellata* p. 53, Nekhoroshev (2).
- † *Nematopora* aff. *lineata* p. 57, Nekhoroshev (2).
- † *Nicklesopora* p. 88, *crenulata* sp. n. Devonian Australia p. 89, *fitzroyensis* sp. n. Devonian Australia p. 90, *geurienensis* p. n. Devonian Australia, *Nicklesopora* ? *flezuosa* p. 91, *N. leopoldensis* sp. n. Devonian Australia p. 92, *westralis* sp. n. Devonian Australia p. 93, Ross.
- † *Oeciophylloporina* p. 41, Nekhoroshev (2).
- † *Pachydictya* aff. *fimbriata* p. 154, *dichotoma* p. 155, *pumila* p. 156, Nekhoroshev (2).
- † *Parafenestella* gen. n. type-species *Fenestella formosa* McCoy Lower Carboniferous Britain p. 238, *P. formosa* p. 239, Miller.
- † *Phaenopora* discussed p. 61, species tabulated p. 66, *minutissima* sp. n. Ordovician Siberia p. 70, *elegans* sp. n. Ordovician Siberia p. 71, *similis* sp. n. Ordovician Siberia p. 72, *plebeia* p. 73, *limbata* sp. n. Ordovician Siberia p. 75, *limbataeformis* [? sp. n. see table p. 24] p. 76, *gregaria* p. 77, *angarensis* p. 79, *tungussica* p. 80, *cericornis* sp. n. Ordovician Siberia p. 81, *markhensis* sp. n. Silurian Siberia p. 83, *multiflora* sp. n. Ordovician Siberia p. 85, *mixta* sp. n. Ordovician [and Silurian p. 24] Siberia p. 86, *irregularis* sp. n. Ordovician [and Silurian p. 24] Siberia p. 87, *cinzipora* sp. n. Ordovician Siberia p. 88, *insignis* sp. n. Ordovician Siberia p. 89, *virgata* sp. n. Ordovician Siberia p. 92, *lata* sp. n. Ordovician Siberia p. 93, *angustobasis* sp. n. Ordovician Siberia p. 95, *bona* sp. n. Ordovician Siberia p. 96, *carinata* sp. n. Ordovician Siberia p. 98, *praerecta* sp. n. Ordovician Siberia p. 99, *erecta* p. 100, *erecta* f. *pennata* f. n. Silurian Siberia p. 101, *hasta* sp. n. Ordovician Siberia p. 103, *symmetrica* p. 104, *monticulata* p. 105, *lopatinii* sp. n. Ordovician Siberia p. 108, aff. *lopatinii* p. 109, *pennigera* sp. n. Ordovician Siberia p. 110, *viluensis* p. 111, *pseudomonticulata* sp. n. Silurian Siberia p. 114, Nekhoroshev (2).

† *Phaenoporella* discussed p. 115, species tabulated p. 118, *transenna-mesofenestralia* p. 119, *microfenestralia* (= *transenna* f. *microfenestralia*) p. 122, *macrofenestralia* (= *transenna* f. *macrofenestralia*) p. 124, *multicellata* sp. n. Ordovician Siberia p. 126, *tschunensis* sp. n. Ordovician Siberia p. 127, *multipora* sp. n. Ordovician Siberia p. 128, *anastomosa* sp. n. Ordovician Siberia p. 130, *sepolporoides* sp. n. Ordovician Siberia p. 131, *sibirica* p. 132, *ptiloporoides* sp. n. Ordovician Siberia p. 134, *transformis* sp. n. Ordovician Siberia p. 135, Nekhoroshev (2).

† *Phylloporina tricellata* p. 48, Nekhoroshev (2).

† Phylloporinidae discussed p. 34, Nekhoroshev (2).

† *Polypora* (?) sp. p. 161, Barbossa.—*P. sculpta* sp. n. p. 461, *septata* sp. n. p. 462, *isaacensis* sp. n. p. 463, Carboniferous New South Wales, Campbell.

† *Pseudohornera* sp. p. 50, Nekhoroshev (2).

† *Ptilodictya viluensis* sp. n. Silurian Siberia p. 59, *Ptilodictya* sp. p. 60, Nekhoroshev (2).

† Ptilodictyidae p. 58, Nekhoroshev (2).

† *Retepora* (" *Fenestella* ") attributions of Phillips's species p. 225, Miller.

† *Reteporidra variocellata* sp. n. Carboniferous U.S.S.R. p. 91, Viskova.

† Rhabdomesonidae [sic] discussed p. 85, Ross.

† *Rhinidictya* p. 142, (?) *carinata* p. 143, (?) *tungusica* sp. n. Ordovician Siberia p. 145, *bifurcata* sp. n. Ordovician and Silurian Siberia, *R.* aff. *mutabilis* p. 146, *markhensis* sp. n. Ordovician and Silurian Siberia p. 147, *morkokiana* sp. n. Ordovician Siberia p. 148, Nekhoroshev (2).

† Rhinidictyidae discussed p. 141, Nekhoroshev (2).

† *Rhombopora* p. 87, *Rhombopora*? *gippslandica* p. 95, Ross.—*Rhombopora*(?) *bifurcata* sp. n. Carboniferous N.S.W. Australia p. 455, Campbell.

† *Saffordotaxis* ? sp. A p. 94, Ross.

† *Sardesonina* p. 42, Nekhoroshev (2).

† *Semicoscium jarushevskiy* sp. n. Devonian Fergana p. 98, *lilicum* sp. n. Devonian Fergana p. 99, Orlovskij (1).

† *Sibiredictya* discussed p. 158, *usitata* sp. n. Ordovician Siberia p. 159, *evenkiana* sp. n. Ordovician Siberia p. 160, Nekhoroshev (2).

† *Stictopora* emended definition p. 76, *belubulensis* sp. n. p. 77, *bowanensis* sp. n. p. 78, *quandongensis* sp. n. p. 80, *zeelandensis* sp. n. p. 81, spp. A, B p. 83, spp. C, D p. 84, all Ordovician Australia, Ross.

† *Stictoporella lamellata* sp. n. Silurian Siberia p. 138, Nekhoroshev (2).

† Stictoporellidae discussed p. 137, Nekhoroshev (2).

† *Stictoporella* discussed p. 139, *clausa* sp. n. Ordovician Siberia p. 140, Nekhoroshev (2).

† Trepostomina p. 41 Nekhoroshev (2).

† *Tropidopora* p. 88, Ross.

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† *Acanthodesia savartii* p. 223, Kataoka.

Acanthodesia (*Biflustra*) *mogadori* sp. n. Recent Morocco p. 187, Gantès & Balavoine.

† *Actiseos regularis* p. 269, Kataoka.

† *Adeona japonica* p. 262, *nipponica* sp. n. Pleistocene Japan p. 263, Kataoka.

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†*Adeonella minutipora* p. 263, *tuberculata* p. 264, **Kataoka.**

†*Adeonellopsis pentapora* p. 264, **Kataoka.**

†*Aechmella globosa* sp. n. Pleistocene Japan p. 235, **Kataoka.**

Aimulosia uvulifera p. 20, *palliolata* p. 21, **Soule.**

†*Amastigia* cf. *rudis* p. 241, **Kataoka.**

†*Amphiblestrella* gen. n. type-species *Amphiblestrellum ringens* von Hagenow p. 947, *cyindrica* p. 948, *elegans* p. 949, **Prud'homme.**

†*Amphiblestrellum ryukuensis* sp. n. Pleistocene Japan p. 228, **Kataoka.**—*A. ringens* referred to *Amphiblestrella* p. 947, **Prud'homme.**

†*Anoteropora rajnathi* sp. n. Miocene India p. 234, **Tewari, Bhargava & Tandon.**

†*Antropora laguncula* p. 225, *minor*, *savartii* var. *minor* p. 226, **Kataoka.**

†*Aplousina* cf. *filum* p. 226 *septulata* sp. n. Pleistocene Japan p. 227, **Kataoka.**

Aplousina filum p. 164, **Bobin & Prenant.**

†*Arthropoma cecili* p. 249, **Kataoka.**

Arthropoma circinata p. 14, **Soule.**

†*Beisselina* sp. p. 231, **Voigt.**

†*Biflustra savartii* p. 226, **Reguant.**

†*Caleschara* sp., *C. leviseni* p. 235, **Kataoka.**

†*Callopora asanoi* sp. n. Pleistocene Japan p. 228, **Kataoka.**—*C. lineata* p. 387, **Paghida.**

†*Calloporina biavicularia* sp. n. Pleistocene Japan p. 255, **Kataoka.**

Cauloramphus spiniferum p. 162, **Bobin & Prenant.**

†*Cellaria sinuosa* p. 99, **Carvalho.**—*C. punctata* p. 240, **Kataoka.**—*C. johnsoni* p. 230, **Reguant.**

†*Cellariniidra cylindrica* referred to *Amphiblestrella* p. 948, **Prud'homme.**

†*Cellepora filipes* sp. n. *arrecta*, *partschi*, *ceratomorpha*, Miocene Czechoslovakia p. 391, **Paghida.**

Celleporina costazi p. 60, **Soule.**

†*Chaperina octospinosa* sp. n. Pleistocene Japan, *patula*, *judex* var. p. 232, **Kataoka.**

†*Cheiloporina* cf. *caerulea* p. 265, **Kataoka.**

Cleidochasma porcellana p. 18, *contracta* p. 19, **Soule.**

†*Coleopora asanoi* sp. n. Pleistocene Japan, *errinacea* [sic] p. 244, **Kataoka.**

†*Conescharellina* sp. p. 269, **Kataoka.**

†*Conopeum* sp. p. 162, **Barbosa.**—*C. reticulatum* p. 224, **Kataoka.**

†*Copidozoum kikajimense* sp. n. Pleistocene Japan, *tenuirostre* p. 229, **Kataoka.**

†*Coscinopsis rostrigera* p. 247, **Kataoka.**

†*Coscinopleura* sp. p. 230, **Voigt.**

†*Costazia radiata* p. 267, **Kataoka.**

†*Cranosina coronata* p. 227, **Kataoka.**

†*Crassimarginatella microcicum* sp. n. Pleistocene Japan, *corbula*, *crassimarginata* var. *japonica* p. 230, *parviavicularia* p. 231, **Kataoka.**

†*Crepidacantha solea*, *grandis* p. 266, **Kataoka.**

Crepidacantha poissoni p. 48, *setigera* p. 49, **Soule.**

†*Cribrilaria radiata* p. 241, *biavicularia* sp. n. Pleistocene Japan p. 242, **Kataoka.**

†*Cupuladria canariensis* p. 97, *haidingeri* p. 98, **Carvalho.**—*C. granulosa* p. 224, *microdenticulata* sp. n. Pleistocene Japan p. 225, **Kataoka.**—*C. canariensis*, *haidingeri* p. 227, *reussiana*, *Cupuladria* sp. p. 228, **Reguant.**

Cyclicopora longipora p. 5, **Soule.**

Cycloperella rosacea p. 7, **Soule.**

Cyphonautes barroisi larva of *Electra crustulenta*, **Cook** p. 258.

†*Dacryonella minor* referred to *Antropora* p. 226, **Kataoka.**

†*Dakaria sertata* p. 249, **Kataoka.**

Dakaria ordinata, *sertata* p. 13, **Soule.**

†*Didymosella acutirostris* [sic] pp. 354, 425, **Ruis de Gaona & Colom.**

†*Discoeporella misrai* sp. n. Miocene India p. 234, **Tewari, Bhargava & Tandon.**

†*Distanescharella adia* sp. n. Miocene Czechoslovakia p. 389, **Paghida.**

Electra crustulenta, **Cook** p. 258.

†*Ellisina canui* p. 228, **Kataoka.**

†*Emballothea kikajimensis* sp. n. Pleistocene Japan p. 250, **Kataoka.**

†*Escharella variolosa* p. 235, **Reguant.**

†*Escharina pesanseri* p. 250, **Kataoka.**

Escharina vulgaris p. 15, **Soule.**

†*Escharoides angela*, cf. *adeonelloides* p. 254, **Kataoka.**

†*Fedora* (*Kionidella*) *exceles* pp. 354, 425, **Ruis de Gaona & Colom.**

†*Fenestulina infundibulipora* p. 255, **Kataoka.**

Fenestulina malusi p. 28, **Soule.**

†*Figularia* cf. *figularis* var. *japonica* p. 242, *ryukuensis* sp. n. Pleistocene Japan p. 243, **Kataoka.**

†*Flabellipora* sp. p. 269, **Kataoka.**

†*Floridinella kamikatsuwensis* sp. n. Pleistocene Japan p. 236, **Kataoka.**

Flustra anguloavicularis sp. n. Recent Seas of Japan and Okhotsk p. 126, **Kluge.**—*F. octodon* type-species of *Hincksinoflustra* q.v.

†*Flustrella* d'Orb. p. 230, **Voigt.**—*F. baculina* synonym of *Amphiblestrella elegans* p. 949, **Prud'homme.**

†*Gemelliporella biavicularia*, cf. *fallax* p. 252, **Kataoka.**

Gemelliporiidra oculata p. 17, **Soule.**

†*Hiantopora bidenticulata* p. 233, **Kataoka.**

†*Hincksina* cf. *ocalensis* p. 225, **Kataoka.**

Hincksina flustroides p. 165, **Bobin & Prenant.**

Hincksinoflustra gen. n. monotypical for *Flustra octodon* Busk, pp. 169, 170, **Bobin & Prenant.**

†*Hippaliosina trifurcata* p. 265, *actirostris* [sic] p. 266, **Kataoka.**

Hippaliosina rostrigera p. 47, **Soule.**

Hippodiplosia foliacea p. 85, **Nikolić.**

†*Hippomenella konnoi* p. 252, **Kataoka.**

Hippomenella longirostrata p. 22, **Soule.**

Hippopetraliella magna p. 6, **Soule.**

†*Hippopleurifera* (?) *philippinensis* p. 243, **Kataoka.**

Hippopleurifera mucronata p. 8, **Soule.**

†*Hippopodina fejeeensis* subsp. *bilamella* subsp. n. Pleistocene Japan p. 245, **Kataoka.**

- Hippopodina californica* p. 7, *insculpta* p. 17, Soule.
Hippopodinella adpressa p. 45, Soule.
 †*Hippoporella gigantea* sp. n. Pleistocene Japan p. 253, Kataoka.
Hippoporella gorgonensis p. 20, Soule.
 †*Hippoporina yabei* sp. n. Pleistocene Japan p. 251, *Hippoporina* sp. p. 252, Kataoka.
 †*Hippothoa rugulosa* p. 389, Paghida.
Hippothoa hyalina, *divaricata* p. 2, *distans* p. 3, *expansa* p. 4, Soule.
 †*Holoporella tridenticulata* p. 267, *erectrostris* [sic], cf. *albirostris* p. 268, Kataoka.
Holoporella brunnea p. 55, *quadrispinosa* p. 57, *minuta* sp. n. Recent Gulf of California p. 58, Soule.
 †*Inversula inversa* p. 264, Kataoka.
 †*Labioporella hexagona* sp. n. Pleistocene Japan, *elegans*, *crenulata* p. 237, *increnulata* sp. n. Pleistocene Japan p. 238, Kataoka.
Lagenipora punctulata p. 49, *spinulosa* p. 50, *socialis* p. 51, *hippocrepis*, *lacunosa* p. 52, Soule.
 †*Lepralia coccinea* p. 390, Paghida.
Lepralia foliacea p. 158, Forster.
Lichenella brentii restricted to alga p. 363, Opinion 617.
 †*Lunulites conica* p. 98, Carvalho.
 †*Magnea* gen. n. (Schizoporellidae) p. 16, *pileata* sp. n. Miocene France p. 17, Vigneaux (1). [See also Vigneaux, Mém. Soc. géol. Fr. 60, 1949: 58. Z.R. 86 title 44.]
 †*Macropora grandis* p. 240, Kataoka.
Mamillopora cupula p. 61, Soule.
 †*Membranipora* sp. p. 223, Kataoka.—*Membranipora* sp. p. 397, Paghida.—cf. "Membranipora" p. 230, Voigt.
Membranipora gregaria p. 171 Bobin & Prenant.—*M. senrati* (Canu) to replace *M. spiculata* (Canu) homonym of *M. spiculata* Canu & Bassler, Cook p. 265.—*M. membranacea*, Lutaud.—*Membranipora* (= *Nitscheina* ? = *Conopeum* ?) *spiculata* p. 7, Saechi (1).
 †*Membraniporella petasus* p. 243, Kataoka.
 †*Micropora rimulata* p. 234, Kataoka.
 †*Microporella ciliata* p. 254, Kataoka.—*M. praeciliata* p. 389, Paghida.
Microporella ciliata p. 23, *californica* p. 24, *marupitata* p. 25, *pontifica*, *gibbosa* p. 26, *coronata*, *cribrosa* p. 27, Soule.
 †*Monoporella sulcoecia* sp. n. Pleistocene Japan, *fimbriata* p. 239, Kataoka.
 †*Mucronella major* p. 256, Kataoka.
Mucronella major p. 38, Soule.
 †*Mystriopora jacobii* sp. n. Miocene France p. 18, Vigneaux (2).
Neoeuthyris woosteri p. 363, Opinion 617.
 †*Onychocella subsymmetrica* p. 233, Kataoka.
 †*Pachyclethythia* [sic] *hanzawai* sp. n. Pleistocene Japan p. 245, Kataoka.
 †*Palmicellaria convoluta* p. 393, Paghida.
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 †*Parrellisina* cf. *subalbata* p. 231, Kataoka.
 †*Petralia japonica* p. 244, Kataoka.
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 †*Phonicosia* sp. p. 250, Kataoka.
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 †*Quadriceclaria* sp. p. 231, Voigt.
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 †*Reptoflustrella heteropora* referred to *Amphiblestrella* p. 950, Prud'homme.
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 †*Relevirgula* cf. *areolata* p. 231, Kataoka.
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 †*Rimosocella* gen. n. Microporidae type-species *Quadriceclaria* *laciniosa* Canu & Bassler 1920 p. 287, *R. laciniosa* p. 288, Cheetham (2).
 †*Rosselliana reussiana* p. 388, Paghida.
 †*Schismopora cuppa* sp. n. *parasitica*, *rostrata*, Miocene Czechoslovakia p. 392, Paghida.
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 †*Schizoporella* sp. p. 248, Kataoka.—*S. oviformis*, *macarovicii* spp. n. Miocene Czechoslovakia p. 390, Paghida.
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 †*Serupocellaria elliptica* p. 388, Paghida.
 †*Siphonella elegans* referred to *Amphiblestrella* p. 949, Prud'homme.
 †*Smittina lecointrei* nom. n. for *S. bassleri* Canu & Lecoindre not Cipolla p. 200, Buge.
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†*Tremopora ovalis* p. 233, Kataoka.

†*Trigonopora gironica* [var.] *tarraconensis*, *monilifera* p. 237, *Trigonopora* sp. p. 238, Reguant.

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†*Tubucella mamillaris* pp. 354, 425, Ruiz de Gaona & Colom.

†*Tubucellaria cereoides* p. 262, Kataoka.—*T. mamillaris* p. 390, Paghida.—*T. cereoides* pp. 354, 425, Ruiz de Gaona & Colom.

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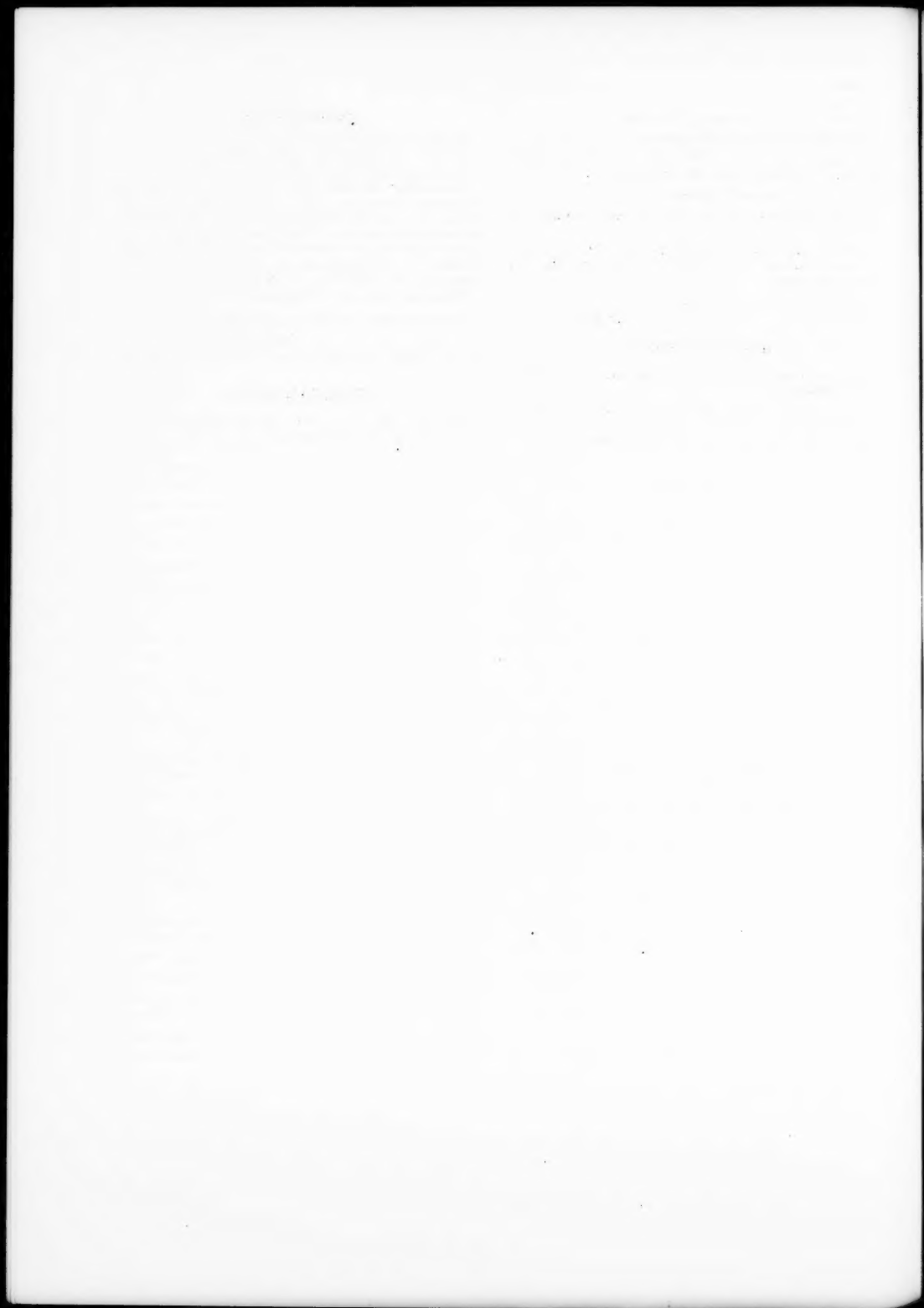
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